

527, 974

Pat'd PCT 14 MAR 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number
WO 2004/035449 A1

(51) International Patent Classification⁷: B66B 5/02, 1/50

(21) International Application Number:
PCT/US2002/032848

(22) International Filing Date: 15 October 2002 (15.10.2002)

(25) Filing Language: English

(26) Publication Language: English

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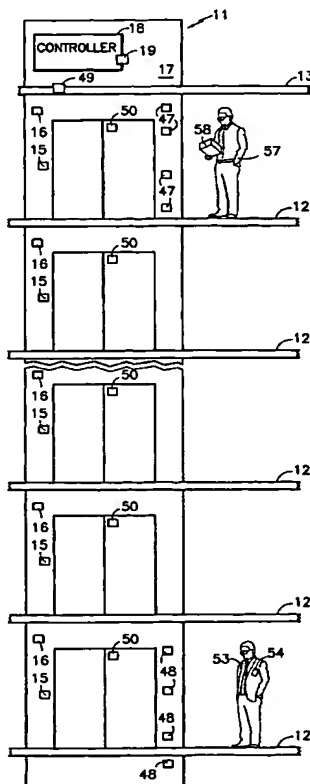
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(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,

[Continued on next page]

(54) Title: ELEVATOR WIRELESS COMMUNICATION INFRASTRUCTURE USING PICONET MODULES



(57) Abstract: An elevator system has on each floor hall call buttons that are inter-connected with piconet modules (15), such as modules conforming to BLUETOOTHTM specifications; similar piconet modules (16) may be associated with hall fixtures such as lanterns and gongs; similar piconet modules (50) may be associated with hoistway doors, on each floor, so as to form a wireless communication system with a similar piconet module (19) at the controller (18); and a piconet module (40) may be associated with the car operating panel. A module (43) may be interconnected with the car door lock switch; a module (44) may be interconnected with a safety switch; modules (48) and (49) may be interconnected with lower and upper limit switches; and a module (49) may be interconnected with an overspeed detector, so as to form a safety chain. A prospective passenger (53) may carry a portable device with a piconet module (54) to request elevator service and receive acknowledgment, and maintenance personnel (58) may use a personal digital assistant having a piconet module (58) therein to acquire current and historical information about the elevator and to issue executable commands to the elevator system.

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SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(84) **Designated States (regional):** ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/32848

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B66B 5/02, 1/50

US CL : 187/247,287,289,391,393,316,413,414,900; 340/505,507,518,521,522

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 187/247,287,289,391,393,316,413,414,900; 340/505,507,518,521,522

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,647,585 B1 (GOZZO et al) 22 October 2002 (22.10.2002), see entire document.	1-11
Y	US 6,481,531 B (NAGURA et al) 19 November 2002 (19.11.2002), see entire document.	1-11
A	US 6,173,814 B1 (HERKEL et al) 16 January 2001 (16.01.2001), see figure 1.	1-11
A	US 5,708,416 A (ZAHARIA et al) 13 January 1998 (13.01.1998), see figures 2,4.	1-11
A	US 3,203,506 A (CUMMINGS) 31 August 1965 (31.08.1965), see entire document.	1-11

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Date of the actual completion of the international search

21 January 2003 (21.01.2003)

Date of mailing of the international search report

12 MAR 2003

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks

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Form PCT/ISA/210 (second sheet) (July 1998)

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